

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A sound reproduction system comprising:

--- an audio processor with a filter arranged for applying a
~~first head related transfer function over a predetermined first~~
~~frequency range to an input audio signal from an audio signal~~

5 source, and yielding an output audio signal for a sound production
means; ~~and~~

--- a first data source, ~~which is arranged for delivering for~~
~~providing~~ first filter coefficients of ~~the a~~ first head related
transfer function ~~over a first predetermined frequency range~~ to the
10 filter; ~~and~~

~~characterized in that~~

--- a second data source ~~is comprised, which is arranged for~~
~~delivering for providing~~ second filter coefficients of a second head
related transfer function over a predetermined second frequency
15 range, unequal to the first frequency range, to the filter for
filtering the input audio signal yielding the output audio signal.

2. (Currently Amended) ~~A~~ ~~The~~ sound reproduction system as
claimed in claim 1, characterized in that ~~characterized in that~~
~~said sound reproduction system further comprises:~~

--- a microphone ~~is included for performing a sound~~
5 measurement; ~~and,~~

--- ~~wherein~~ the first data source comprises coefficient calculation means for calculating the first filter coefficients from the sound measurement; and

10 | --- ~~wherein~~ the second data source comprises a memory for storing data related to the second head related transfer function filter.

3. (Currently Amended) ~~A~~ The sound reproduction system as claimed in claim 2, characterized in that

5 | --- the second data source comprises calculating means for calculating the second filter coefficients based on ~~the~~ data from ~~stored in~~ the memory.

4. (Currently Amended) A computer program for execution by a processor, describing a method of sound reproduction comprising the steps of:

5 | --- obtaining coefficients of a first head related transfer function ~~over a first predetermined frequency range~~ from a first data source;

10 | --- ~~applying a~~ filtering an input audio signal from an audio signal source using said coefficients of the first head related transfer function ~~filtering to an input audio signal from an audio signal source, yielding to form~~ an output audio signal;

--- ~~characterized in that the computer program comprises further steps in its method of:~~

15 | obtaining coefficients of a second head related transfer
| ~~function over a second predetermined frequency range, different~~
| ~~from said first predetermined frequency range,~~ from a second data
| source; and

20 | ~~applying a additionally filtering said input audio signal~~
| ~~using said coefficients of the second head related transfer~~
| ~~function filtering to an input audio signal from an audio signal~~
| ~~source, yielding an~~thereby forming said output audio signal.

5-7 (Cancelled).